

## ABSTRACT

In a lighting apparatus using microwave, a lighting apparatus using microwave including a resonator excluding microwave and transmitting a light, a waveguide placed at an internal domain of the resonator and transmitting the microwave, a microwave generating means installed at the side of the resonator and oscillating microwave into the waveguide, and a bulb placed at the center of the resonator and emitting light by generating a plasma by the microwave transmitted through the waveguide is capable of miniaturizing a lighting system and at the same time improving a lighting efficiency.